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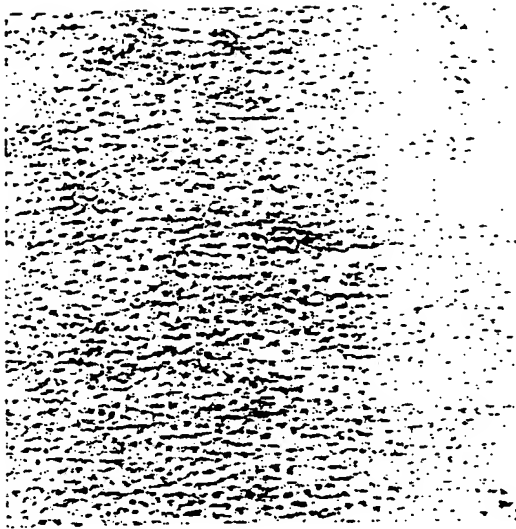


FIG. 1A

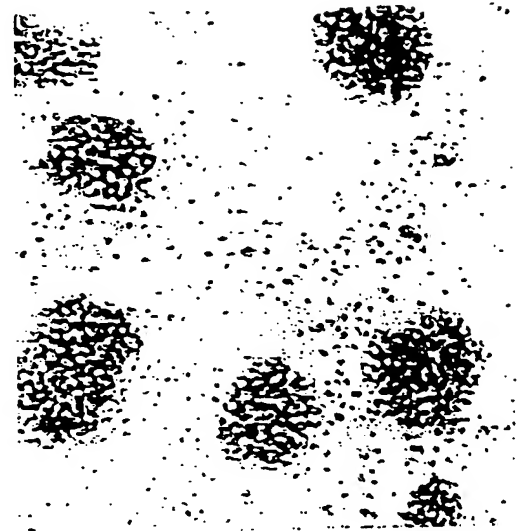


FIG. 1B

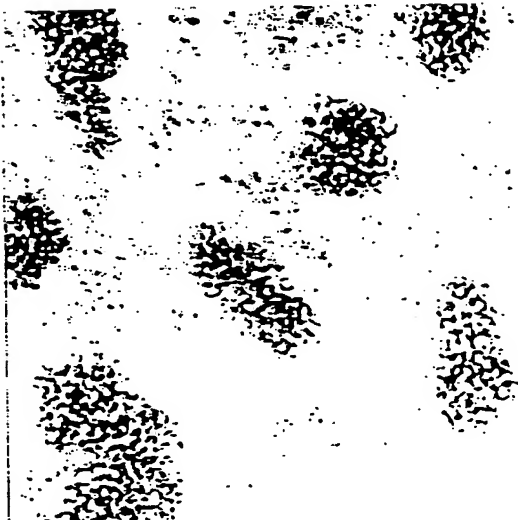


FIG. 1C

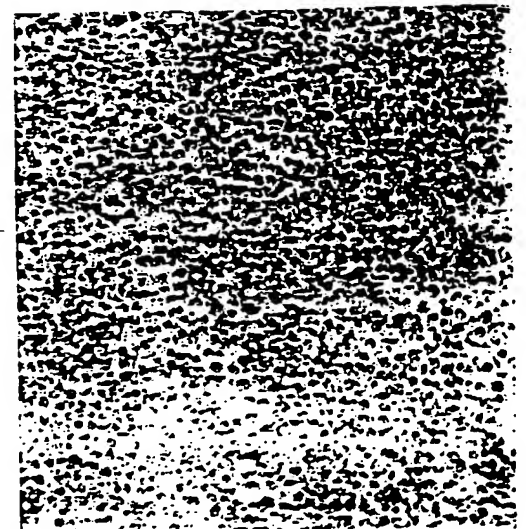
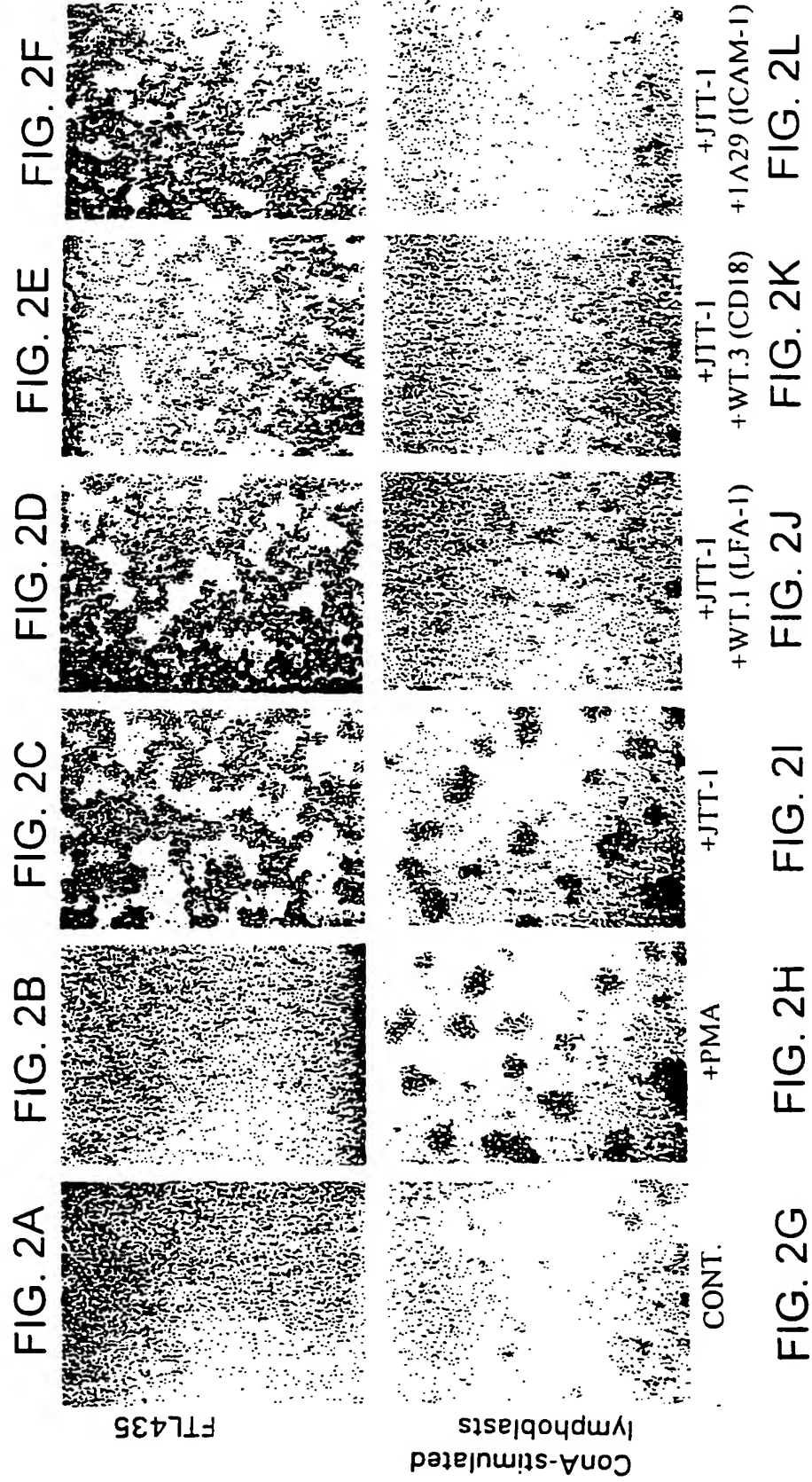


FIG. 1D



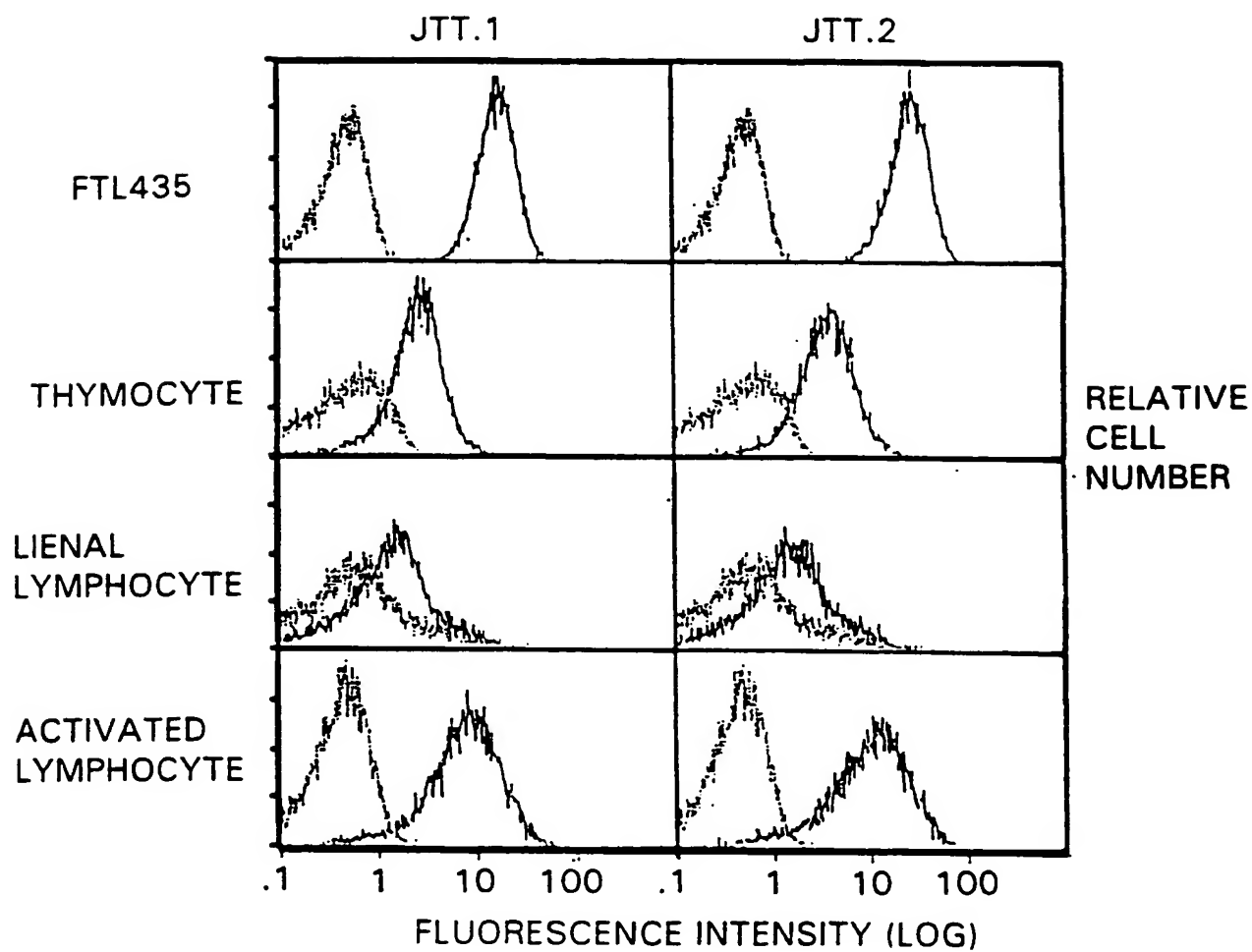
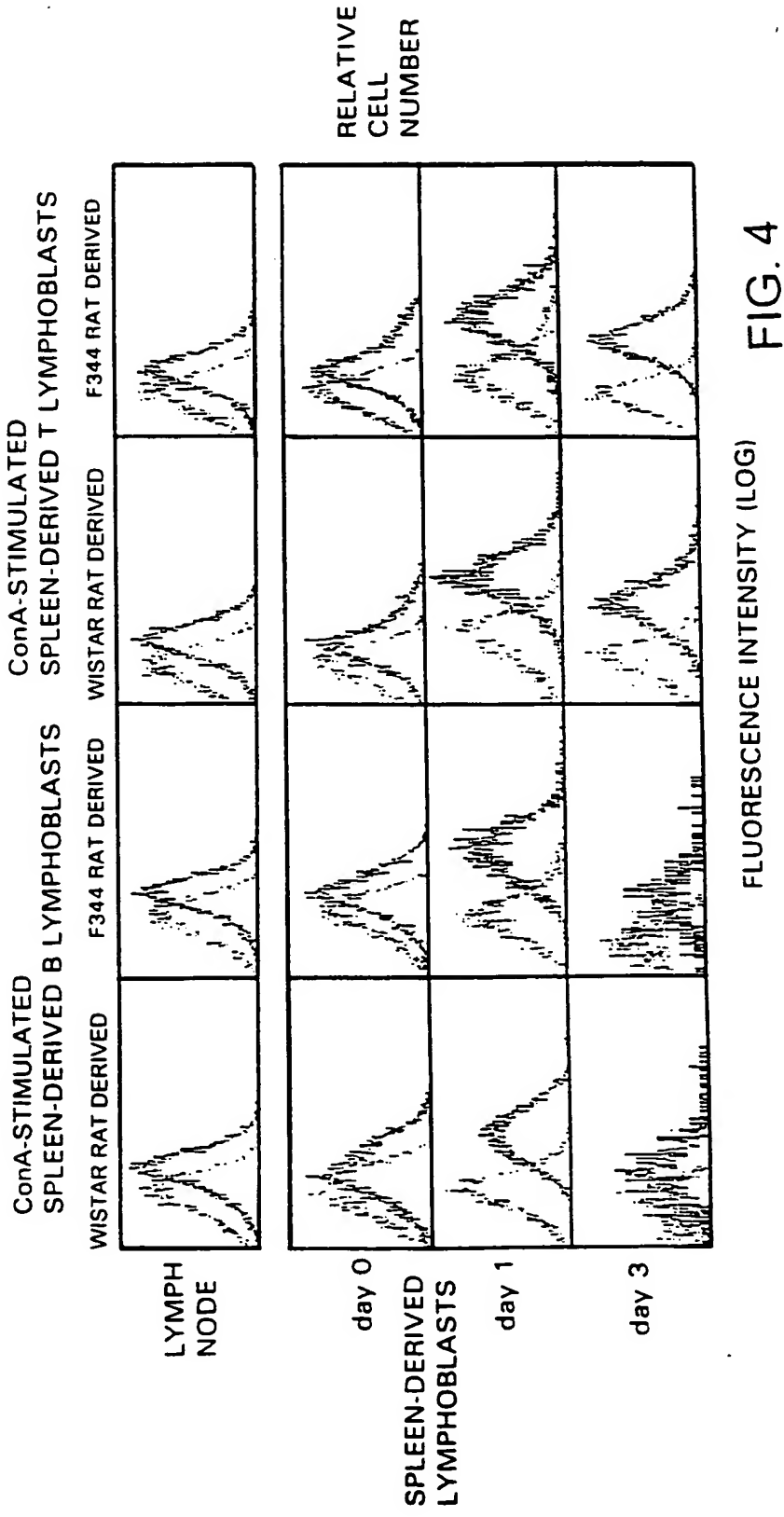


FIG. 3



Applicant(s): Takuya Tamatani et al.

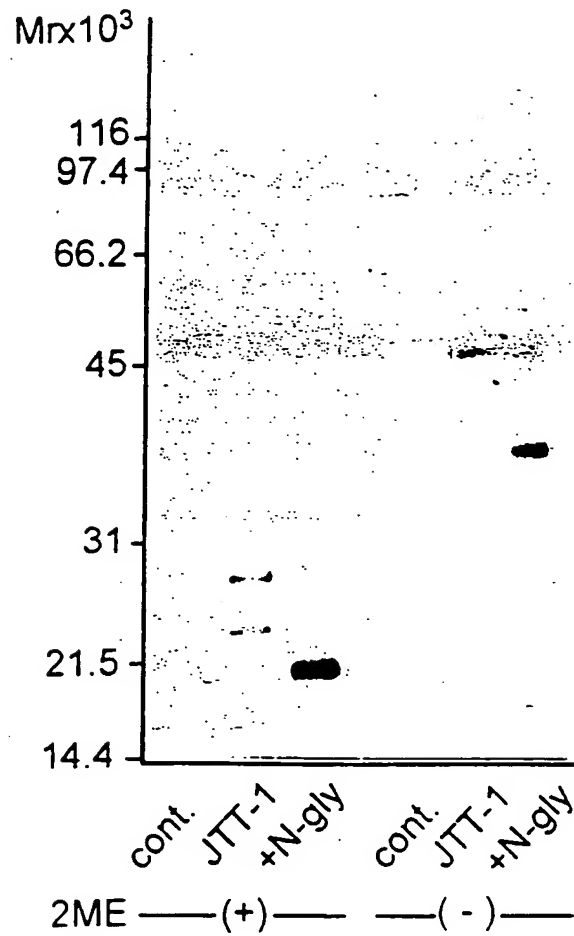
CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

FIG. 5



FIG. 6A

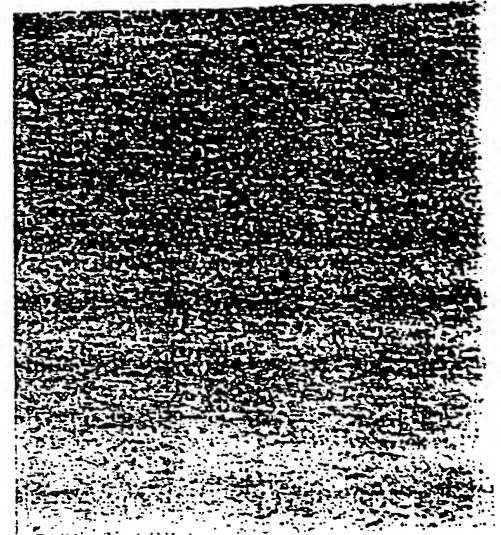


FIG. 6B

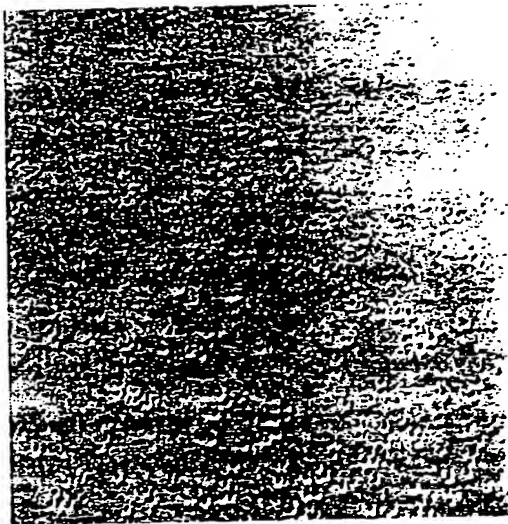


FIG. 6C

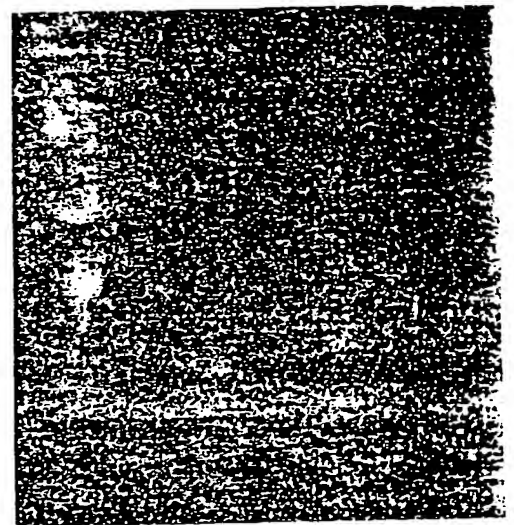


FIG. 6D

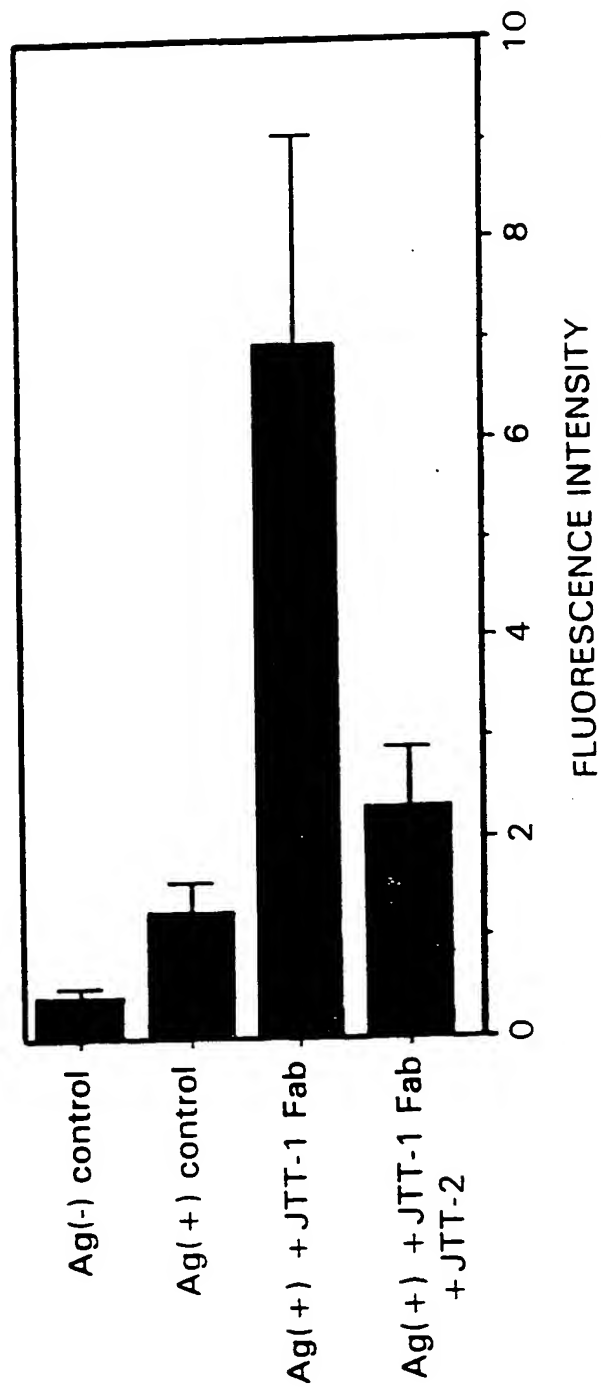


FIG. 7



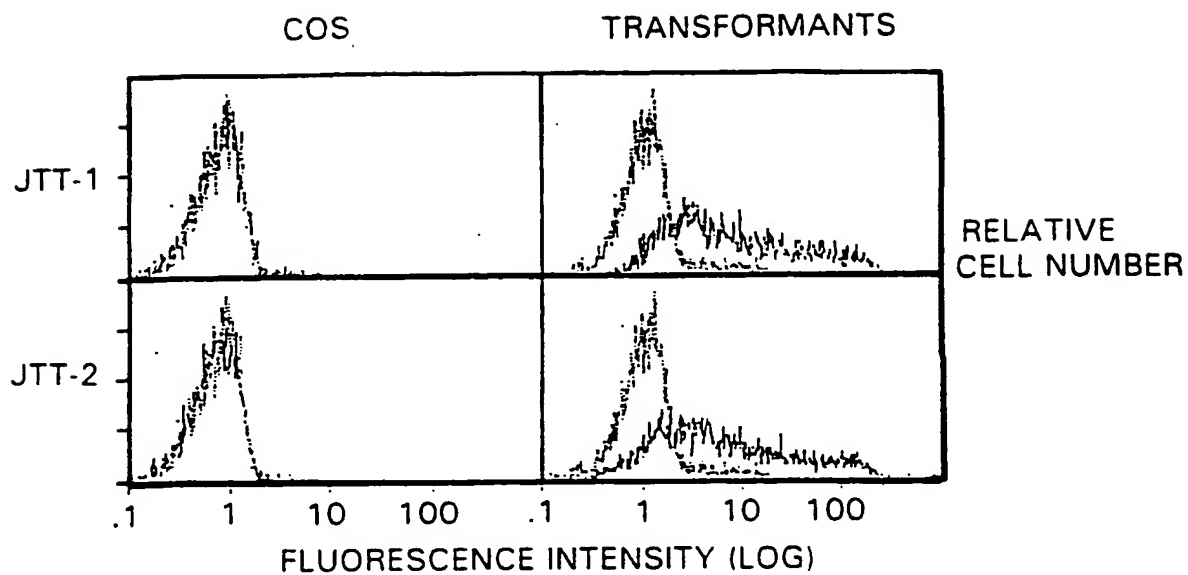
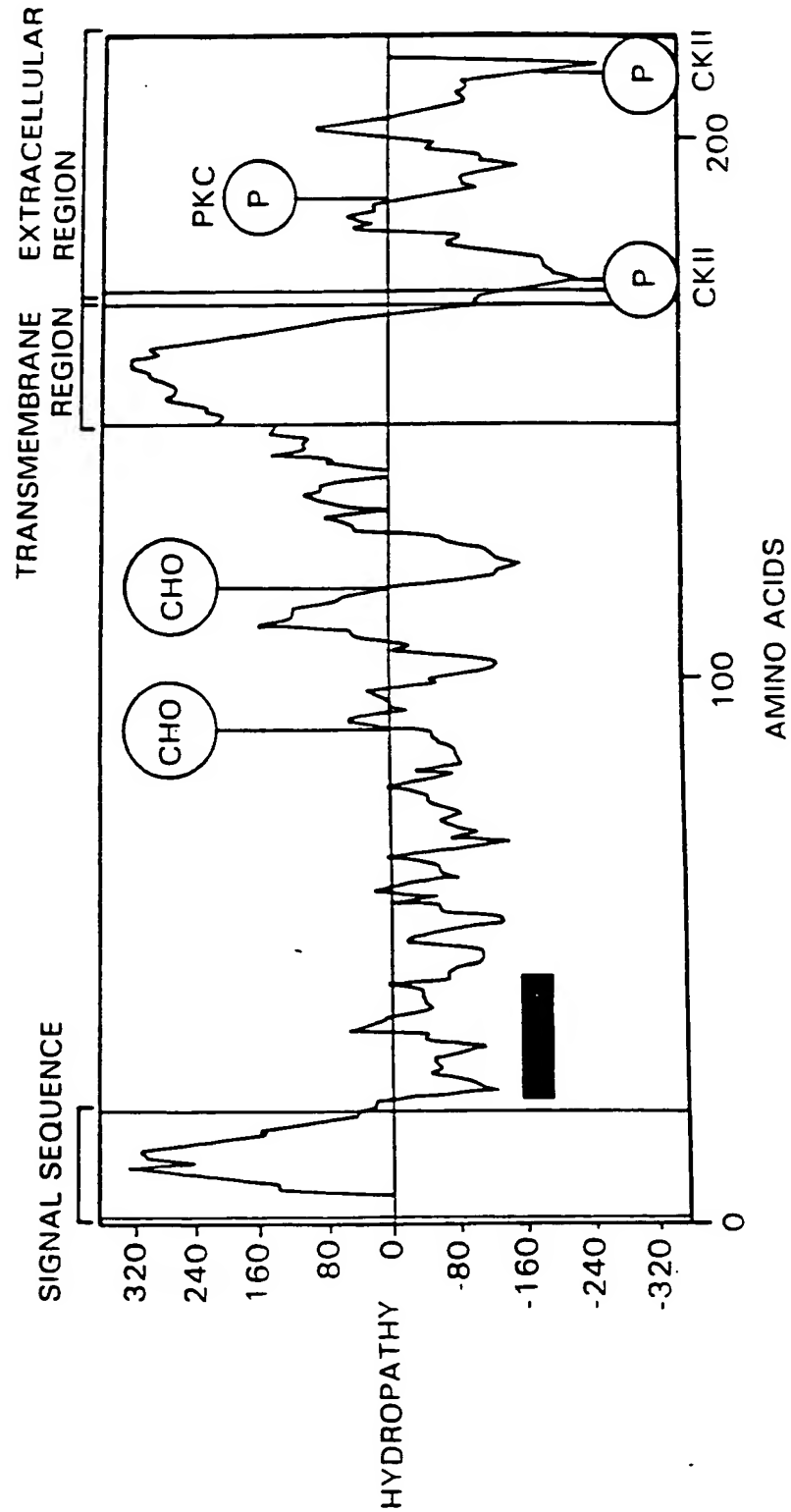


FIG. 8



human	M K S G L W Y F F L	F C L R I I K V L T G E I N G S A N Y E M F I F H N G G V Q I I	L C K Y P D I V Q Q	50
rat	M K P Y F S C V F V	F C F L I K L L T G E E L N D L A N H R M F S F H D G G V Q I I	S C N Y P E T V Q Q	50
rat mutant	M K P Y F S C V F V	F C F L I K L L T G E E L N D L A N H R M F S F H D G G V Q I I	S C N Y P E T V Q Q	50
mouse	M K P Y F C H V F V	F C F L I K L L T G E E L N D L A N H R M F S F H D G G V Q I I	S C N Y P E T V Q Q	50
consensus	M K P Y F . . V F V	F C F L I K L L T G E . N . . A N H R M F S F H . G G V Q I I	S C . Y P E T V Q Q	50
human	F K M Q L L K K G G Q	I L C D L T K T K G S G N T V S I K S L K F C H S Q L L S N N S V S F F L Y N L D	N L D	100
rat	L K M Q L L F K D R E	V L C D L T K T K G S G N T V S I K N P M S C P Y Q L L S N N S V S F F L Y N L A D	N L A D	100
rat mutant	L K M Q L L F K D R E	V L C D L T K T K G S G N T V S I K N P M S C P Y Q L L S N N S V S F F L Y N L A D	N L A D	100
mouse	L K M Q L L F R E R E	V L C D L T K T K G S G N T V S I K N P M L C L Y H L S N N S V S F F L Y N L P D	N L P D	100
consensus	L K M Q L L F K . R E	V L C D L T K T K G S G N T V S I K N P M . C . Y Q L S N N S V S F F L . N . D	N . D	100
human	H S H A N Y Y F C N	L S I F D P P P P F Q - V T L T G G Y L H I Y E S Q L C C C Q L K F W L P I G C A A	C A A	149
rat	S S Q G S Y F L C S	L S I F D P P P P F Q E K N L S G G Y L L I Y E S Q L C C C Q L K L W L P V G C A A	C A A	150
rat mutant	S S Q G S Y F L C S	L S I F D P P P P F Q E K N L S G G Y L L I Y E S Q L C C C Q L K L W L P V G C A A	C A A	150
mouse	S S Q G S Y Y F C S	L S I F D P P P P F Q E R N L S G G Y L H I Y E S Q L C C C Q L K L W L P V G C A A	C A A	150
consensus	S S Q G S Y . . C S	L S I F D P P P P F Q E . N L S G G Y L . I Y E S Q L C C C Q L K L W L P V G C A A	C A A	150
human	F V V V C I L G C I	L I C W L T K K K K Y S S V H D P N S E Y M F M R A V N T A K K S R L T D V T L	V T L	199
rat	F V A A L L F G C I	F I V W F A K K K K Y S S V H D P N S E Y M F M R A V N T A K K S R L A G M T S	A G M T S	200
rat mutant	F V A A L L F G C I	F I V W F A K K K K Y S S V H D P N S E Y M F M R A V N T A K K S R L A G T A P	A G T A P	200
mouse	F V V V L L F G C I	L I I T W F S K K K K Y S S V H D P N S E Y M F M R A V N T A K K S R L A G V T S	A G V T S	200
consensus	F V . . I L F G C I	L I . W F . K K K K Y . S S V H D P N S E Y M F M R A V N T A K K S R L A G . T .	A G . T .	200
human	- - - - -	- - - - -	- - - - -	199
rat	- - - - -	- - - - -	- - - - -	200
rat mutant	L R A L G R G E H S	S C Q D R N	- - - - -	216
mouse	- - - - -	- - - - -	- - - - -	200
consensus	- - - - -	- - - - -	- - - - -	216

FIG. 10

## CELL SURFACE MOLECULE MEDIATING CELL ADHESION AND SIGNAL TRANSMISSION

JTT1	M	-	-	-	-	K S G L	-	-	-	W	-	Y F F L	F C L R	I K V	L T G E I N G	S A N Y E M F I F H
CD28	M	-	-	-	-	R L L L	A	-	-	-	-	L N L F	P S	I Q V	T G N K I L V	K Q S P M L V A Y D
CTLA4	M	A C L G	F Q R H K	-	-	A O L N	L A A R T W	P C T L	L F F L L F	I P V	F C K A M H V	A Q P A V V L A S S				
consensus	M	-	-	-	-	-	-	-	-	-	-	-	-	I . V	-	-
JTT1	N G G V	Q I L	C K Y	-	-	P D I	V Q Q F K	M Q L	L K G G Q I L	-	-	-	-	C D L	T K T	K G S G N T V S I K
CD28	N A V	- N L S	C K Y	S Y N	L F S	R E F R	A S L H	K G L D S A	V E V	-	-	-	-	C V V	Y G N	Y S Q Q L Q V Y S K
CTLA4	R G I A	S F V C E Y	A S P G	K A T E V R	V T V	L R Q A D S Q	V T E V	C A A -	-	T	Y M T	G N E L T F L				
consensus	N G . . . .	. . . .	C K Y	. . . .	E F R .	L L K G . D S .	V . . .	-	-	T	Y . .	G N . V . .	K			
JTT1	S L K F	C H S Q L S	N N S V	S F F L Y N	L D H S	H A N Y Y F	C N L S	I F D P P P	F - -	K V T L T G G						
CD28	T G F N	C D G K L G	N E S V	T F Y L Q N	L Y V N	Q T D I Y F F	C K I E	V M Y P P P	Y L D	N E K S N G T						
CTLA4	D D S I	C T G T S S	G N Q V	N L T I Q G	L R A M	D T G L Y I	C K V E	L M Y P P P	Y Y -	L G I G N G T						
consensus	. . . .	. . . .	N N S V	. . . .	L . . . .	T . . . .	Y F	C K . E . M Y P P P	Y . . . .	N G T						
JTT1	Y L H I	X E S Q L C	C Q L K	F - - - -	-	-	-	-	-	-	-	-	-	-	-	-
CD28	I I H V	K G K H L C	P S P L	F P G P S K	P F W	V L V V V G G	V L A C	Y S L L V T	V A F I	I F W V R S						
CTLA4	Q I Y V	I D P E P C	P D S D	F - - - -	-	-	-	-	-	-	-	-	-	-	-	-
consensus	. I H V . . . .	. . . .	P . . . .	- - - -	-	-	-	-	-	-	-	-	-	-	-	-
JTT1	K Y S	S S V H	D P N	G E Y	N F M	R A V N	T A K K	S R - - -	-	-	-	-	-	-	-	-
CD28	K R S	- - - R	L L H	S D Y	M N M	T P R R	P G P T	R K H Y Q P	Y A P	P R D F A A Y R S						
CTLA4	K R S	- - - P	L T T	G V Y	V K M	P P T E	P E - C	E K Q F Q P	Y - - -	-	-	-	-	-	-	-
consensus	K R S	- - - L . .	. . . .	G . Y M . M	. . . .	P . . . .	K . . . .	O P Y - - -	D F . . . .	-	-	-	-	-	-	-

FIG. 11

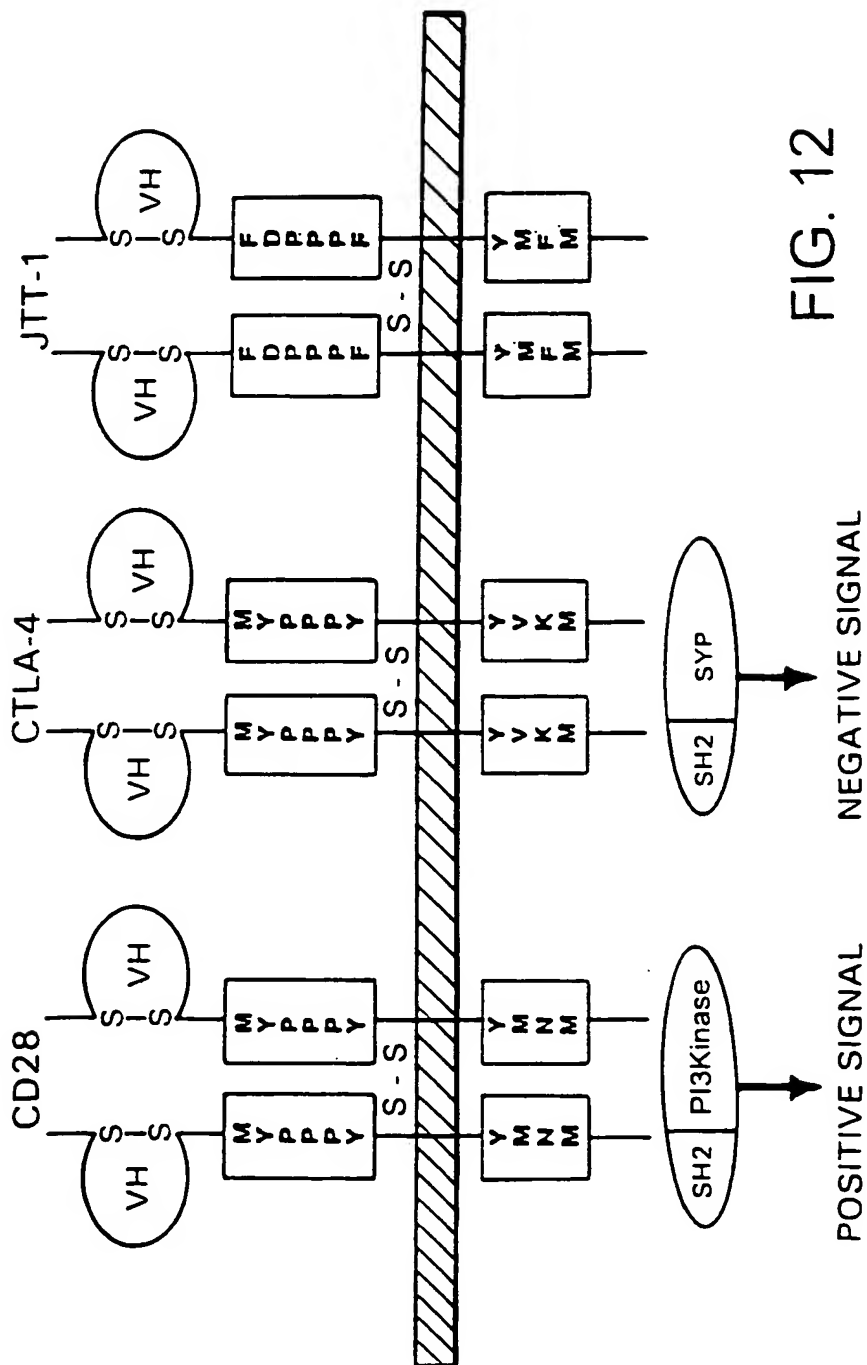


FIG. 12

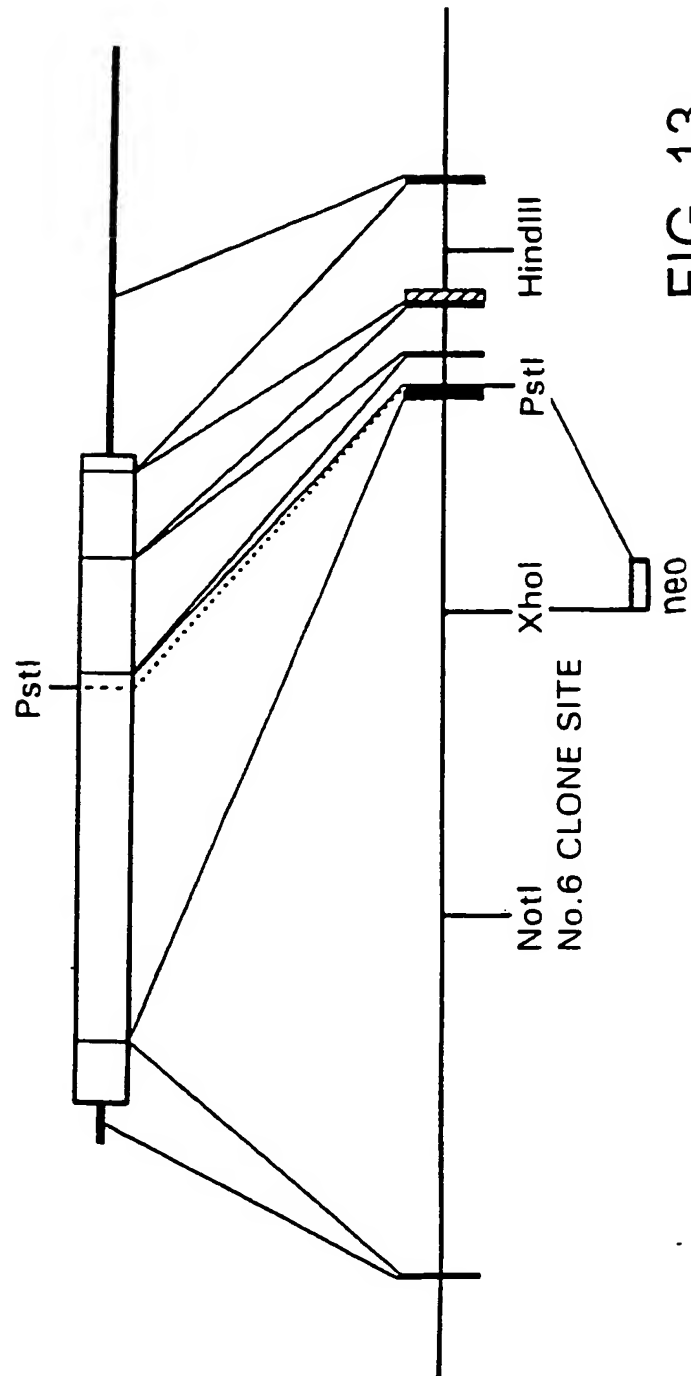
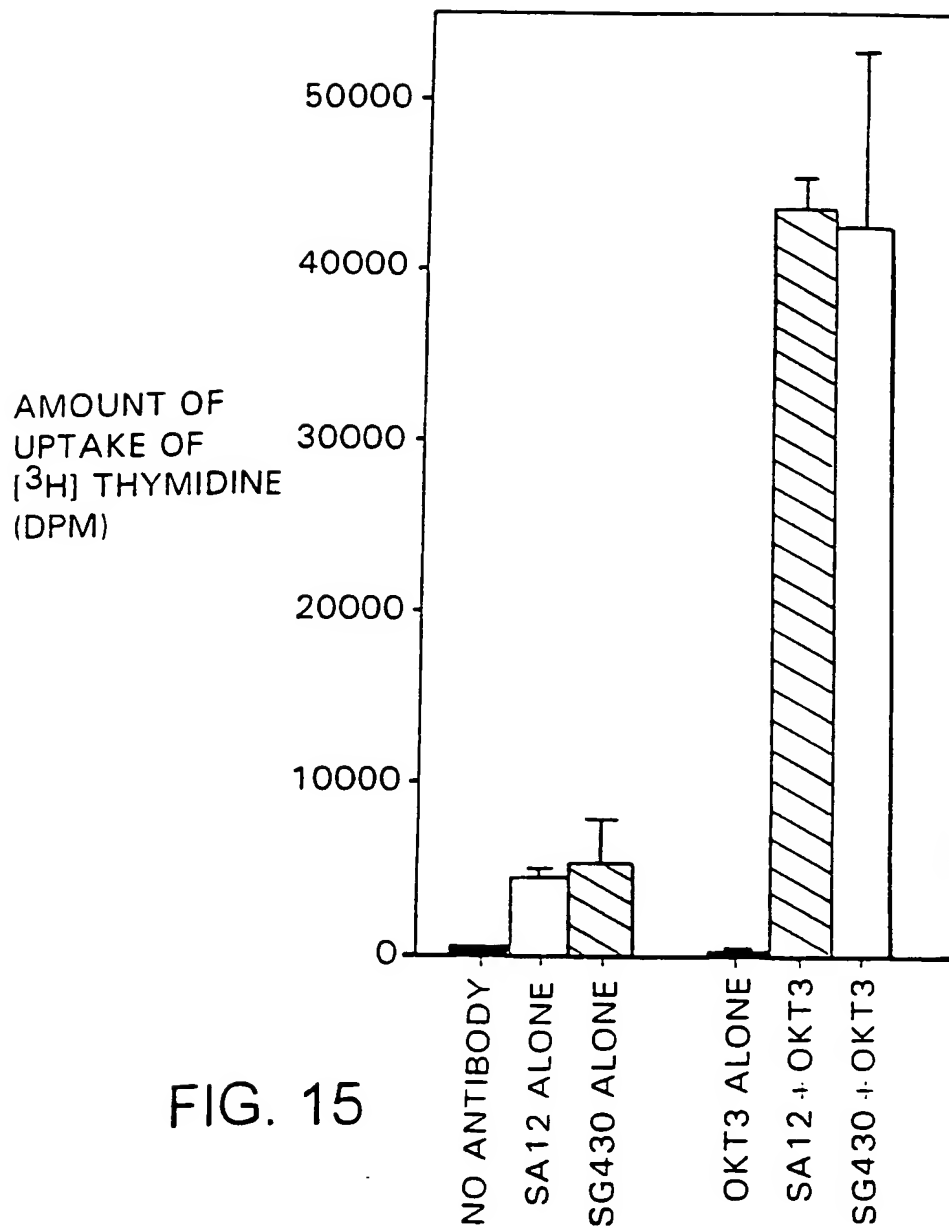


FIG. 13

rat	50	
rat mutant	50	
consensus	50	
rat	100	
rat mutant	100	
consensus	100	
rat	150	
rat mutant	150	
consensus	150	
rat	200	
rat mutant	200	
consensus	200	
rat	200	
rat mutant	216	
consensus	216	

FIG. 14





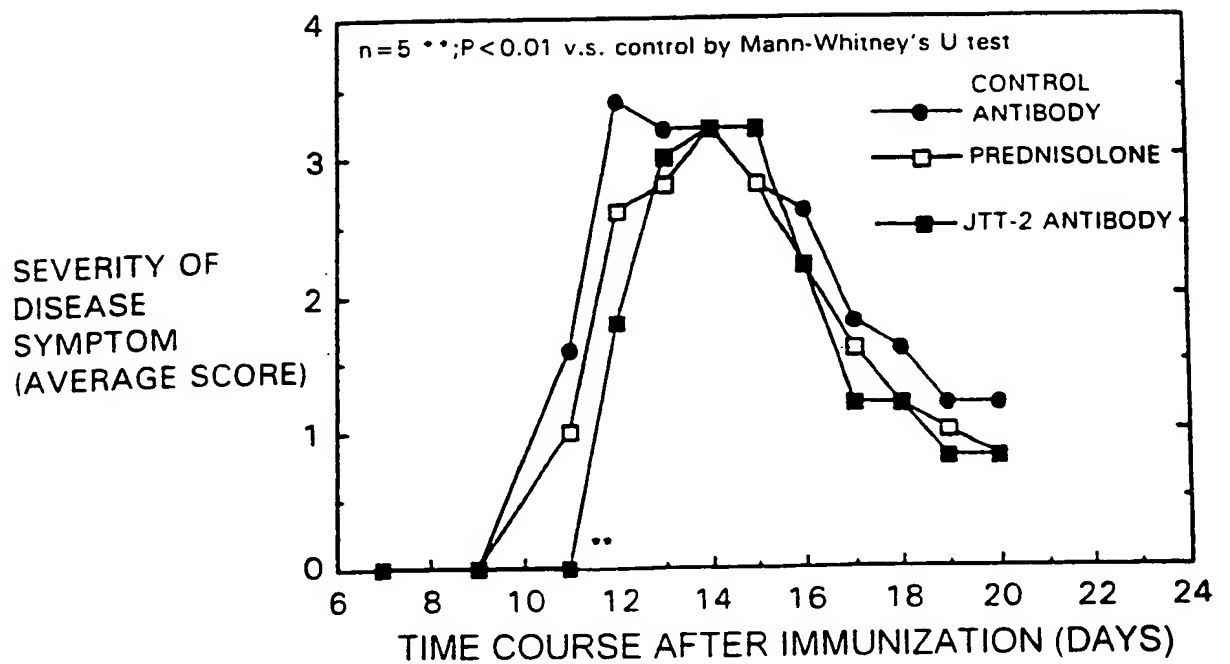


FIG. 16

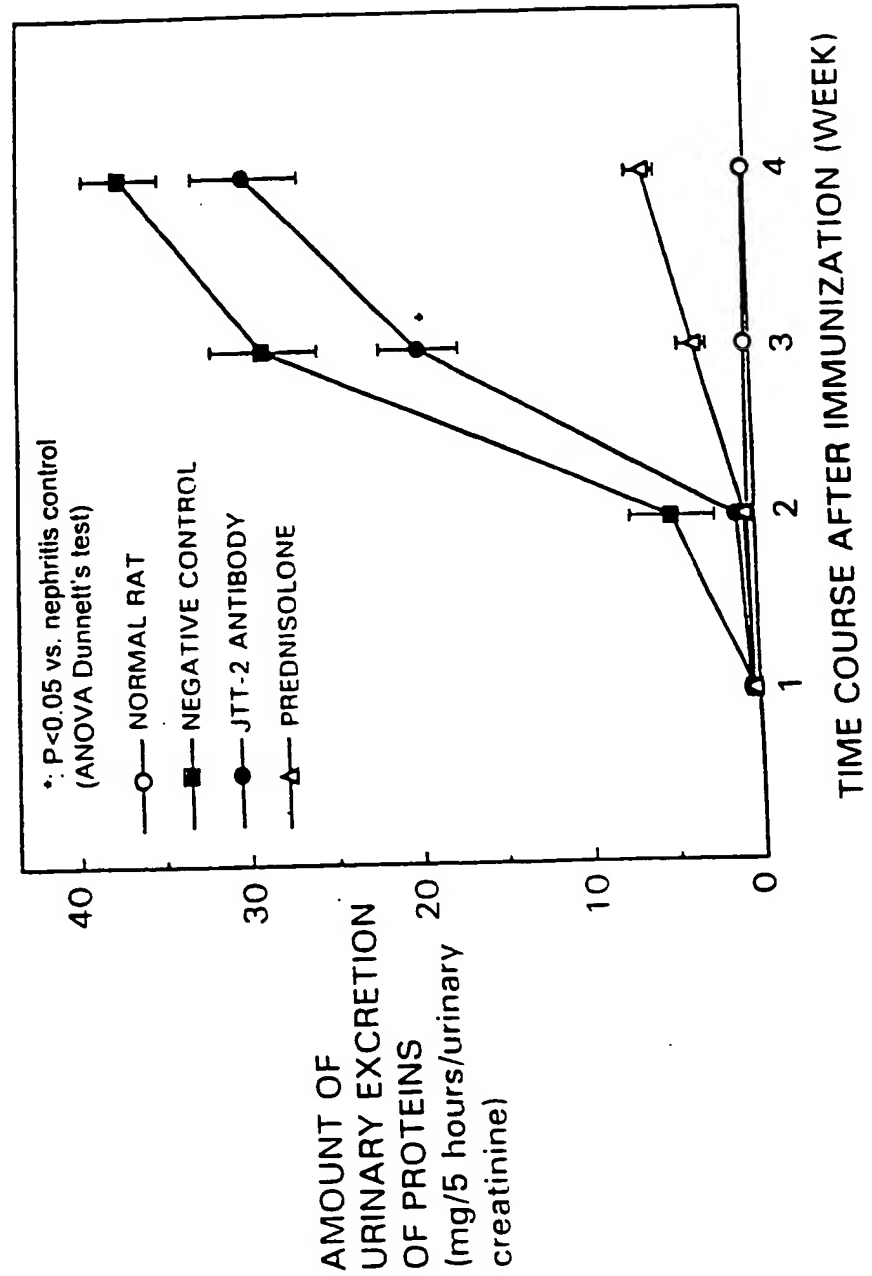


FIG. 17

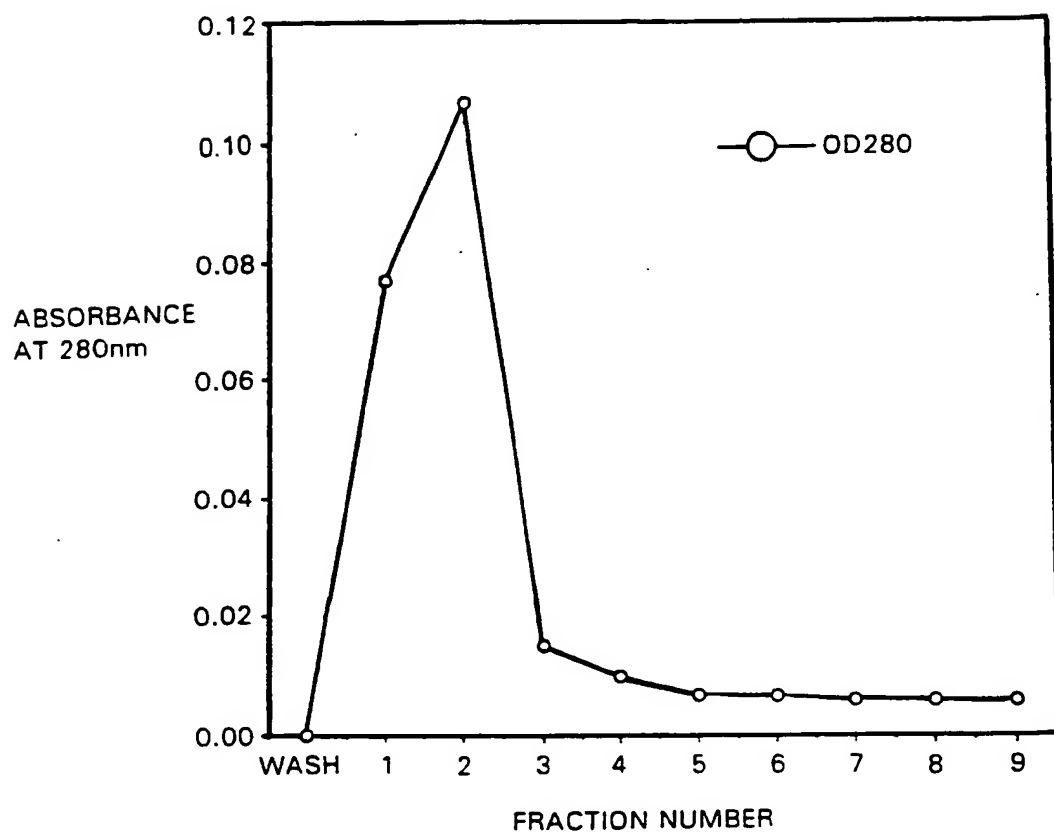


FIG. 18

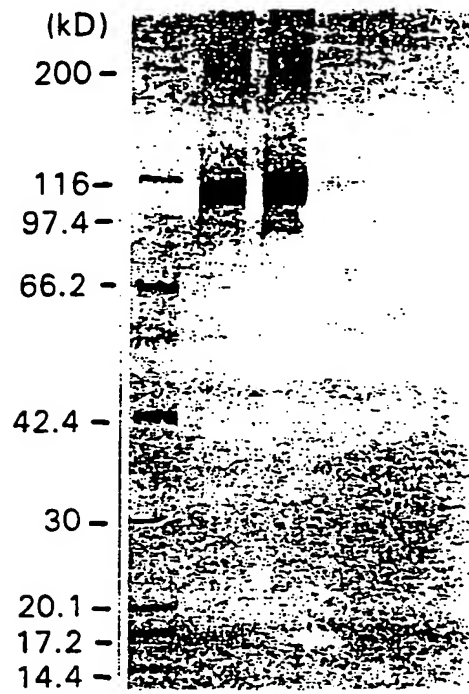


FIG. 19

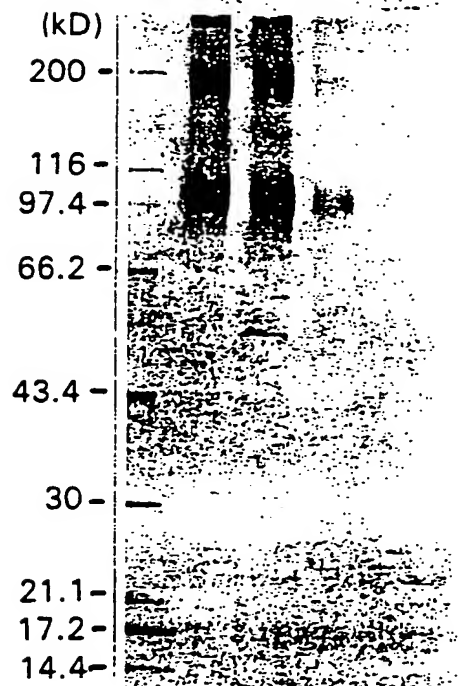


FIG. 21

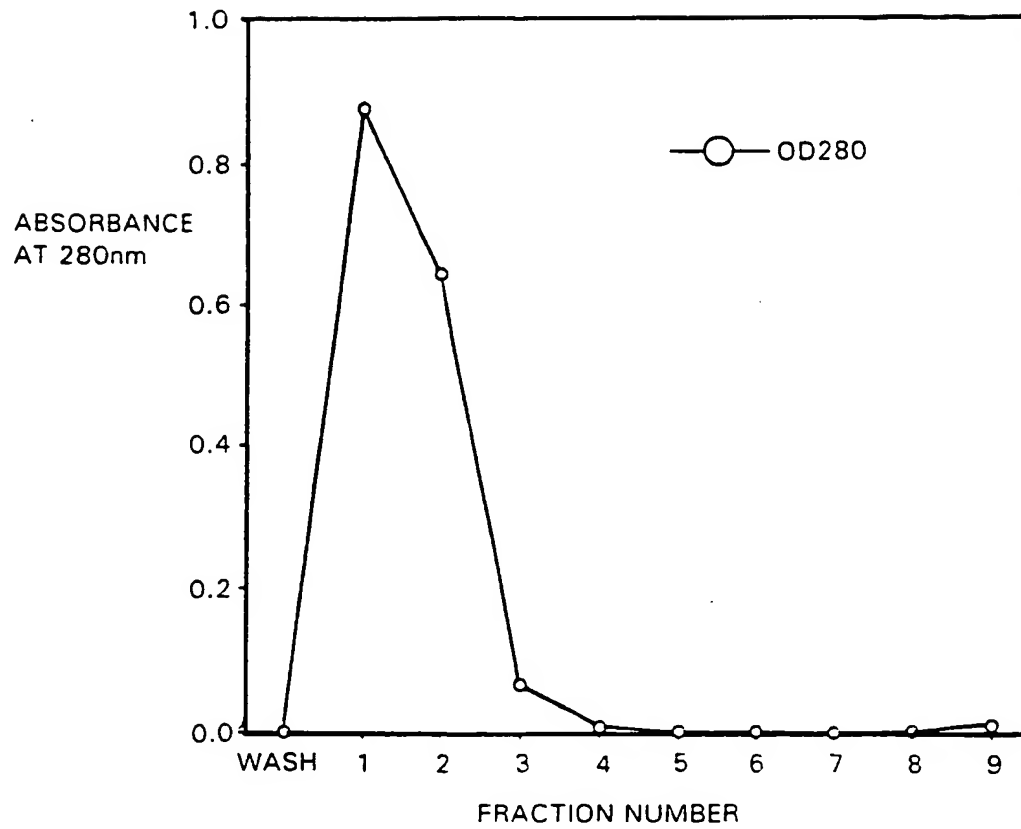


FIG. 20

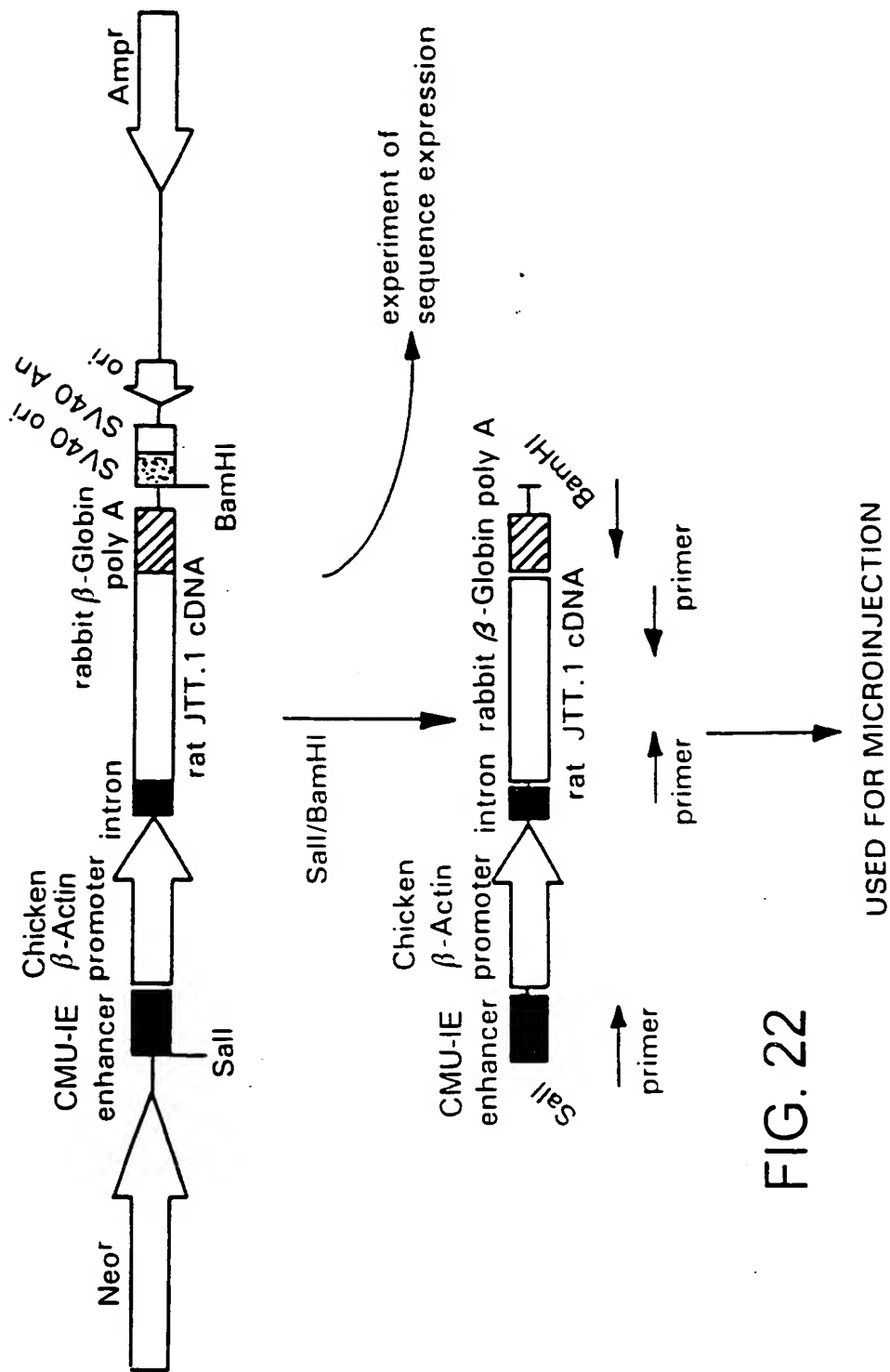


FIG. 22